

Listing of Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Currently Amended) A dental implant, comprising:
a proximal end adapted to abut an abutment;
an interior bore extending distally from the proximal end;
a first anti-rotation cavity having a non-round shape in the interior bore and comprising a first minor diameter, the first anti-rotation cavity is a polygonal shape and is adapted to mate with a driving tool; and
a second anti-rotation cavity having a non-round shape and spaced away from the first anti-rotation cavity in the interior bore and comprising a second minor diameter, the first minor diameter being greater than the second minor diameter, no greater than the first minor diameter, the second anti-rotation cavity defining a polygonal shape comprising a plurality of obtuse angles.
2. (Cancelled)
3. (Cancelled)
4. (Currently Amended) The implant of claim 1, wherein the polygonal shape of the second anti-rotation cavity comprises at least six angles, including the plurality of obtuse angles.
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Original) The implant of claim 1, further including a first axial retention section in the interior bore distal of the second anti-rotation cavity, the first axial retention section having a predetermined configuration adapted to couple with a device inserted into the interior bore.
9. (Original) The implant of claim 8, wherein the first axial retention section comprises a recess adapted to engage a resilient lip of a device inserted into the interior bore.
10. (Original) The implant of claim 9, comprising a second axial retention section in the interior bore distal of the first axial retention section, wherein the second axial retention section comprises a threaded section comprising a major diameter not greater than the second minor diameter of the second anti-rotation cavity.

11. (Original) The implant of claim 8, wherein the first axial retention section comprises a threaded section.
12. (Currently Amended) A dental implant system comprising the dental implant of claim 1 and further comprising:
 - a the driving tool adapted to engage the first anti-rotation cavity; and
 - an abutment adapted to engage the second anti-rotation cavity.
13. (Cancelled)
14. (Previously Presented) A dental implant, comprising:
 - a proximal end;
 - an interior bore extending distally from the proximal end;
 - a first anti-rotational feature that defines a non-round cross-sectional shape in the interior bore; and
 - a second anti-rotational feature that defines a non-round cross-sectional shape in the interior bore, wherein the second anti-rotation feature is positioned distal of the first anti-rotational feature to provide rotational resistance independent of the first anti-rotational feature, and the second anti-rotational feature has a smaller cross-sectional dimension than a cross-sectional dimension of the first anti-rotational feature.
15. (Cancelled)
16. (Original) The dental implant of claim 14, wherein the first anti-rotational feature defines a polygonal shape comprising a plurality of obtuse interior angles.
17. (Original) The dental implant of claim 16, wherein the plurality of obtuse interior angles of the polygonal shape of the first anti-rotational feature comprises at least six angles.
18. (Original) The dental implant of claim 16, wherein the second anti-rotational feature defines a polygonal shape.
19. (Original) The dental implant of claim 14, wherein the first anti-rotational feature defines a polygonal shape.
20. (Original) The dental implant of claim 19, wherein the second anti-rotational feature defines a polygonal shape comprising a plurality of obtuse interior angles.

21. (Original) The dental implant of claim 20, wherein the polygonal shape of the second anti-rotational feature comprises at least six angles, including the plurality of obtuse interior angles.
22. (Original) The dental implant of claim 14, wherein one of the first and second anti-rotational features is adapted to mate with an abutment and the other of the first and second anti-rotational features is adapted to mate with a driving tool.
23. (Original) The dental implant of claim 14, wherein one of the first and second anti-rotational features is adapted to couple with an abutment and to enable relative rotational adjustments to be made by a minimum rotational increment of 30°, whereby the abutment may be rotationally aligned relative to the implant before seating the abutment in the implant.
24. (Currently Amended) The dental implant of claim 14, wherein the first anti-rotational feature is ~~adapted~~ adapted to allow a first minimum circumferential incremental adjustment, and the second anti-rotational feature is adapted to provide a second minimum circumferential incremental adjustment greater than the first minimum circumferential incremental adjustment.
25. (Previously Presented) The dental implant of claim 14, wherein the first anti-rotational feature and the second anti-rotational feature have different polygonal shapes.
26. (Original) The dental implant of claim 14, wherein at least one of the first and second anti-rotational features is symmetric about a longitudinal axis running through the interior bore.
27. (Original) The dental implant of claim 14, further including an axial-retentive feature for mating with a resilient feature of an abutment, the axial-retentive feature being distal of the second anti-rotational feature.
28. (Original) The dental implant of claim 27, further including a threaded section located distally of the axial-retentive feature.
- 29-35. (Cancelled)
36. (Previously Presented) A dental implant system, comprising:
- (a) an implant comprising:
 - a proximal end opening to a bore,
 - a first internal anti-rotation feature having a polygonal shape in the bore, and
 - a second internal anti-rotation feature having a polygonal shape in the bore distal of the first anti-rotational feature, the second internal anti-rotation feature

having a smaller minor diameter than a minor diameter of the first internal anti-rotation feature;

- (b) a first abutment comprising a stem adapted to fit in the bore of the implant, wherein the stem comprises:
 - a non-locking portion adapted to be located in the first internal anti-rotation feature without rotationally-lockingly engaging the first internal anti-rotation feature, and
 - a locking portion distal of the non-locking portion and adapted to rotationally-lockingly engage the second anti-rotation feature; and
- (c) a second abutment comprising a stem adapted to fit in the bore of the implant, wherein the stem comprises:
 - a locking portion adapted to rotationally-lockingly engage the first anti-rotation feature of the implant.

37. (Original) The system of claim 36, wherein the stem of the second abutment comprises a non-locking portion distal of the locking portion and adapted to be positioned in the second anti-rotation feature without rotationally-lockingly engaging the second anti-rotation feature.

38. (Original) The system of claim 36, comprising a driving tool adapted to be selectively engaged with either the first feature or the second feature.

39. (Currently Amended) A dental implant system, comprising:

- (a) an implant comprising:
 - an interior bore,
 - a first internal anti-rotation section having a non-round shape, and
 - a second internal anti-rotation section having a non-round shape, the second internal anti-rotation section being spaced away from the first internal anti-rotation section, the first internal anti-rotation section comprises a first minimum diameter and the second internal anti-rotation section comprises a second minimum diameter less than the first minimum diameter; and
- (b) an abutment comprising a stem adapted to fit in the bore and comprising:
 - a first section adapted to be positioned in the first internal anti-rotation section of the implant, and

a second section adapted to be positioned in the second internal anti-rotation section of the implant, wherein only one of either the first section of the stem or the second section of the stem rotationally-lockingly engages the implant when the abutment is seated.

40. (Cancelled)

41. (Currently Amended) The implant system of claim 39 40, wherein the first section of the stem comprises a first major diameter and the second section of the stem comprises a second major diameter less than the first major diameter.

42. (Original) The implant system of claim 41, wherein the first major diameter of the first section of the stem is not greater than the first minimum diameter of the first anti-rotation section of the implant.

43. (Original) The implant system of claim 41, wherein the second major diameter of the second section of the stem is not greater than the second minimum diameter of the second anti-rotation section of the implant.

44. (Original) The implant system of claim 39, comprising a driving tool adapted to rotationally-lockingly engage the first internal anti-rotation section of the implant, wherein the abutment is adapted to rotationally-lockingly engage the second internal anti-rotation section of the implant.

45. (Previously Presented) A dental implant system, comprising:

(a) an implant comprising:

an interior bore,

a first internal anti-rotation section having a hexagonal shape and a first minor diameter, and

a second internal anti-rotation section having a hexagonal shape and a second minor diameter smaller than the first minor diameter, the second internal anti-rotation section being distal of the first internal anti-rotation section; and

(b) an abutment comprising a stem adapted to fit in the bore and comprising:

a first section adapted to be positioned in the first internal anti-rotation section of the implant, and

a second section distinct from the first section of the abutment adapted to be positioned in the second internal anti-rotation section of the implant, wherein one or more of the first and second sections of the stem rotationally-lockingly engages the implant when the abutment is seated.

46-51. (Cancelled)

52. (Previously Presented) A dental process, comprising:
selecting a suitable abutment from a plurality of abutments; and
coupling the suitable abutment to one of two internal anti-rotation features of an implant that is installed within a patient's mouth, the two internal anti-rotation features having a polygonal shape and different diameters.

53. (Original) The process of claim 52, comprising selecting the suitable abutment based at least in part upon prevailing conditions in the patient's mouth.

54. (Original) The process of claim 53, comprising inserting the implant into the patient's mouth prior to selecting the suitable abutment.

55-57. (Cancelled)

58-66. (Cancelled)

67. (Currently Amended) An implant system, comprising:
an implant including ~~comprising~~ a bore, a first anti-rotational feature comprising a first anti-rotational cavity having a polygonal shape and located in the bore, and a second anti-rotational feature comprising a second anti-rotational cavity having a polygonal shape and located in the bore distinct from the first anti-rotational cavity, wherein the first anti-rotation feature has a different diameter than the second anti-rotation feature;
a mount adapted to couple to the first anti-rotational feature to transfer torque to the implant to install the implant in a patient; and
an abutment adapted to couple to the second anti-rotational feature.

68. (Cancelled)

69. (Original) The system of claim 67, wherein the mount is prepackaged attached to the implant, whereby the practitioner is provided with the mount already coupled to the implant.

70. (Original) The system of claim 67, wherein the mount is an impression coping.

71. (Previously Presented) A dental implant, comprising:

- a proximal end adapted to abut an abutment;
- an interior bore extending distally from the proximal end;
- a first anti-rotation cavity in the interior bore defining a polygonal shape and being adapted to mate with a driving tool, the first anti-rotation cavity comprising a first minor diameter; and
- a second anti-rotation cavity in the interior bore defining a polygonal shape comprising a plurality of obtuse angles, the second anti-rotation cavity comprising a second minor diameter,

wherein the first minor diameter is greater than the second minor diameter.